

**WHAT IS CLAIMED IS:**

1. A disc-type coin processing device for processing a plurality of coins, comprising:

5 a rotatable disc for imparting motion to the plurality of coins; and

a stationary head having a lower surface generally parallel to and spaced slightly away from the rotatable disc, the lower surface having a plurality of shaped regions for controlling the movement of the coins, the lower surface having a solid lubricant disposed thereon.

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2. The device of claim 1 wherein the solid lubricant comprises tungsten disulphide particles.

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3. The device of claim 1 wherein the solid lubricant has a thickness of about one micron.

4. The device of claim 1 wherein the solid lubricant has a thickness of less than about one micron.

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5. The device of claim 1 wherein the sorting head is constructed of a 4140 Alloy Prehard steel.

6. The device of claim 1 wherein the sorting head is constructed of a Nitralloy 135 steel.

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7. A stationary head for a disc-type coin processing device, the stationary head comprising at least one surface having a solid lubricant disposed thereon.

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8. The stationary head of claim 7 wherein the solid lubricant comprises tungsten disulphide particles.

9. The stationary head of claim 7 wherein the solid lubricant has a thickness of about one micron.

10. The stationary head of claim 7 wherein the solid lubricant has a thickness of less than about one micron.

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11. The stationary head of claim 7 wherein the stationary head is constructed of a 4140 Alloy Prehard steel.

10 12. The stationary head of claim 7 wherein the stationary head is constructed of a Nitr alloy 135 steel.

15 13. A method of processing coins, comprising;  
receiving coins in a coin receiving region;

imparting motion to the coins with a rotatable disc; and

engaging the coins with a surface of a stationary sorting head coated with a solid lubricant while imparting motion.

14. The method of claim 13 further comprising sorting the received coins according to denomination.

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15. The method of claim 14 wherein sorting comprising discharging coins from a plurality of coins exit channels formed in the surface of the sorting head.

25 16. A method of constructing a sorting head for a disc-type coin sorter, the method comprising:

providing generally disc-shaped metal object;

machining a plurality of shaped regions in a first surface of the object;

forming a plurality of dimples in the first surface of the object; and

depositing a solid lubricant on the first surface of the object.

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17. The method of claim 16 comprising polishing the first surface of the object after machining.

18. The method of claim 16 comprising subjecting the object to a nitride 5 and heat treatment process after machining.

19. The method of claim 17 wherein the sold lubricant comprises tungsten disulphide particles.

10 20. The method of claim 19 wherein the dimples are sized to corresponding to the tungsten disulphide particles.

21. The method of claim 16 comprising polishing the first surface of the object after depositing the solid lubricant.